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bone, which is caught by the hook *D*, fig. 3, of the key fig. 2, instead of by the thumb and finger as usual.

To the end of the key, fig. 2, is attached a cord, which passes over the pulleys *C*, *G*, and *H*, to a lightly weighted handle *I*, which, being pulled down by the right hand of the operator, draws out the wire in the direction of *C*, along the inclined plane *J J*, from which the weaver removes it, ready to draw out the next wire in order; another cord may be attached to the key, with a weight *K* fastened to it, in order to return the hook from *C* to *D*.

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No. VII.

IMPROVED MACHINE FOR WINDING SILK.

*The SILVER ISIS MEDAL was presented to Mr. ALFRED JONES, 44 West Street, Devonshire Street, Mile End Old Town, for his Improved Machine for winding Silk; a Model of which has been placed in the Society's Repository.*

44 West Street, Devonshire Street,  
Mile End, Old Town,  
Jan. 17, 1843.

SIR,

HAVING completed my machine for winding silk for the Spitalfields weavers, which has great advantages over the old method, I wish to submit the same for the inspection and approbation of the Committee of the Society of Arts.

I am, Sir, &c. &c.

*To the Secretary of the  
Society of Arts.*

ALFRED JONES.

44 West Street, Devonshire Street,  
Mile End, Old Town.

SIR,

March 9, 1843.

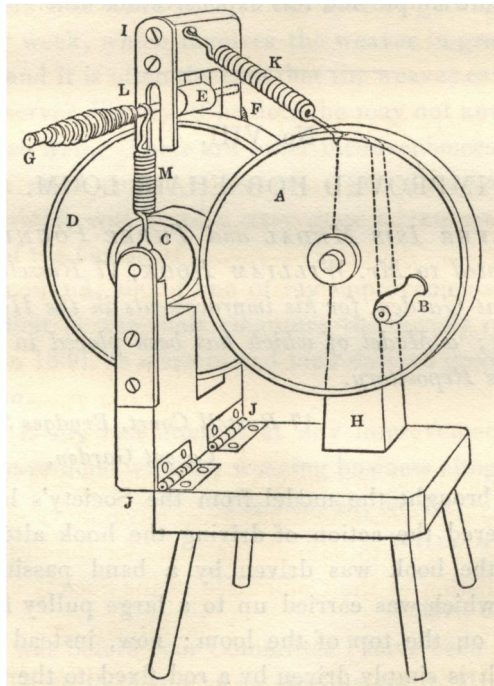
I AM now prepared to exhibit to the Committee of the Society of Arts, &c. my machine for winding quills.

I am, Sir, &c. &c.

To the Secretary of the  
Society of Arts.

ALFRED JONES.

The wheels of the ordinary silk winding machine are usually driven by list-bands. Mr. Jones's improvement consists in substituting friction-wheels, the peripheries of



which are bound with leather; these wheels are three in number, A, C, D, the wheel A being the prime mover, to

which manual power is applied by the handle *B*; the wheel *D* gives motion to an iron friction roller *E*, on the projecting axis of which the quill or reed *G* is fixed, on which the silk is wound.

The roller *E* is kept close to the wheel *D* by two springs *F* and *M*, and the friction-wheels *A* and *C* are also kept in contact by the spring *K*, which is fastened at its upper end to the frame *I J*, and at its lower end to the top of the post *H*, on which the wheel *A* revolves. The frame *I J* is connected to the stool by the hinges *J J*.

By the improvement effected by Mr. Jones, the operation of winding is performed in much less time, and with a more simple and less expensive machine.

## No. VIII.

### IMPROVED HORSEHAIR LOOM.

*The SILVER ISIS MEDAL and THREE POUNDS were presented to Mr. WILLIAM ROOK, 17 Russell Court, Covent Garden, for his improvements in the Horsehair Loom; a Model of which has been placed in the Society's Repository.*

17 Russell Court, Brydges Street,  
Covent Garden.

SIR,

SINCE I brought the model from the Society's house, I have altered the action of driving the hook altogether. Before, the hook was driven by a band passing over pulleys, which was carried up to a large pulley fitted to the axle on the top of the loom; now, instead of that friction, it is simply driven by a rod fixed to the axle on the top of the loom, which, I consider, is the easiest way it can be done to make the loom complete for working.